

## **HDF and HDF-EOS Workshop XIII Trip Report**

The 13<sup>th</sup> annual HDF and HDF-EOS workshop (<http://www.hdfEOS.org/workshops/ws13/agenda.php>) held at the Raytheon Riverdale Facility, Riverdale, MD, 3 Nov 09 to 5 Nov 09 was attended by SSAI personnel Richard Spivak and Brian Magill. The workshop consisted of presentations, tutorials, and a user forum focusing on HDF technologies and application of HDF within the EOS application area. The event was sponsored by the NASA Goddard Science Systems Development Office and The HDF Group (THG) nonprofit organization. THG owns and develops the HDF/HDF-EOS standard and related HDF products and works closely with NASA Earth Science organizations in developing future HDF capabilities to meet EOS and NPOESS needs. THG presented a number of tutorials and demos of both the HDF and HDF-EOS products for the reading and writing of HDF files. Topics of particular interest to the CERES Data Management Team and the Langley ASDC include:

- Current status of HDF formats and features that the HDF working group plans to add to the tools they support.
- New directions in cataloging and archiving data.
- Features in Matlab and IDL that have been added to facilitate their use with HDF.
- Features of HDF Python library HDF5Py and the scientific library NumPy and their use within HDF applications.
- Use of the OPeNDAP (<http://opendap.org>) Web-based data visualization tool for accessing HDF data via the internet.
- HDF I/O performance tuning using data chunking.
- Recent HDF upgrades to the SDP Toolkit.

In addition, the workshop presented information related to future support for the older HDF4 data standard used within many EOS DAACs along with future support of the newer HDF5 (and HDF5-EOS) standard for upcoming NPP and NPOESS missions.

This workshop was well presented by THG along with the many other presenters covering a wide range of topics - some directly related to the CERES Data Management Team and some topics covering material relating to other EOS data management projects. The workshop provided an in-depth view of NASA Science Division data products along with valuable information related to the current and future direction of the HDF data product.